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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/662,162	09/12/2003	Kenneth H. Heffner	N.C. 75463	1535
7590 07/03/2007 Darrell E. Hollis, SPLe-4 Strategic Systems Programs			EXAMINER	
			TURNER, ARCHENE A	
	Suite 1000 2521 South Clark Street			PAPER NUMBER
Arlington, VA 22202-3930			1775	
	•		MAIL DATE	DELIVERY MODE
	•	•	07/03/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/662,162	HEFFNER ET AL.				
Office Action Summary	Examiner	Art Unit				
·	Archene Turner	1775				
The MAILING DATE of this communication app	i					
Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period realiure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNI (36(a). In no event, however, may a will apply and will expire SIX (6) MOI (a, cause the application to become A	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 4/18	<u>/07</u> .					
,	·					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under a	ex parte Quayle, 1935 C.L	J. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1-7</u> is/are pending in the application.	Claim(s) <u>1-7</u> is/are pending in the application.					
	4a) Of the above claim(s) <u>1 and 5-7</u> is/are withdrawn from consideration.					
· <u> </u>	Claim(s) is/are allowed.					
6) ⊠ Claim(s) <u>2-4</u> is/are rejected. 7) □ Claim(s) is/are objected to.	Claim(s) <u>2-4</u> is/are rejected.					
8) Claim(s) are subject to restriction and/o	or election requirement.					
,	·					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc		hy the Examiner				
Applicant may not request that any objection to the						
Replacement drawing sheet(s) including the correct						
11) The oath or declaration is objected to by the E	xaminer. Note the attache	ed Office Action or form PTO-152.				
Priority under 35 U.S.C. § 119						
12)☐ Acknowledgment is made of a claim for foreign	n priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority document	ts have been received.					
2. Certified copies of the priority document						
3. Copies of the certified copies of the price	=	n received in this National Stage				
application from the International Burea * See the attached detailed Office action for a list	•	t received				
See the attached detailed Office action for a list	of the certified copies no	r received.				
Attachment(s)		,				
1) Notice of References Cited (PTO-892)	4) 🔲 Interview	Summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No	(s)/Mail Date Informal Patent Application (PTO-152)				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	· · · · · · · · · · · · · · · · · · ·				

Application/Control Number: 10/662,162

Art Unit: 1775

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 2. Claims 2-4 rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The new limitations to claim 2, that is "having a resistivity of less than 10⁻⁴ Ohm-cm" and "a circular, v-shaped" coating could not be found in the original disclosure. This is a new matter rejection.
- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 2-4 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. the phrase "v-shaped" in claim 2, renders the claims indefinite.
- 6. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

7. Claims 2-4 are rejected under 35 U.S.C. 102(b) as being anticipated by Dorfman et al (5,786,068).

Dorfman et al is maintained for reasons of record in the previous office action.

Applicant's arguments filed 4/18/07 have been fully considered but they are not persuasive. The applicant argues that fig 2 does not include the now claimed resistivity. The applicant is reminded that figure 2 includes the dopant tungsten and not copper and thus the applicant's logic does not make sense. One of ordinary skill would expect when the dopant is copper that the claimed resistivity would be anticipated because the resistivity is a function of composition, and thus the rejection stands.

8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Archene Turner whose new telephone number is (571) 272-1545. The examiner can normally be reached on Monday, Wednesday through Friday from 10:30 am. to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jennifer McNeil can be reached on (571) 272-1540. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Please remember to include on the fax, the art unit 1775, serial number and Examiner's name.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

A. A. Turner
Primary Examiner
Group 1700

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